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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/612,222	07/03/2003	Masatoshi Akagawa	300.1119	5751
21171	7590 01/30/2006		EXAMINER	
	IALSEY LLP		CHANG, RIC	CK KILTAE
SUITE 700 1201 NEW YORK AVENUE, N.W.		ART UNIT	PAPER NUMBER	
WASHINGTON, DC 20005			3729	

DATE MAILED: 01/30/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Application No.	Applicant(s)			
		10/612,222	AKAGAWA ET AL.			
		Examiner	Art Unit			
		Rick K. Chang	3729			
Period fo	The MAILING DATE of this communication app r Reply	ears on the cover sheet with the c	orrespondence address			
WHIC - Exten after: - If NO - Failur Any n	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DAISIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period versure to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D. (35 U.S.C. & 133).			
Status						
1) 🛛	Responsive to communication(s) filed on 23 No.	ovember 2005.				
	This action is FINAL . 2b)⊠ This action is non-final.					
3)[Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.			
Dispositi	on of Claims		·			
5)□ 6)⊠ 7)□	Claim(s) <u>1-36</u> is/are pending in the application. 4a) Of the above claim(s) <u>3,9,10,21,27 and 28</u> i Claim(s) is/are allowed. Claim(s) <u>1,2,4-8,11-20,22-26 and 29-36</u> is/are Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	s/are withdrawn from consideration	on.			
Application	on Papers					
9)⊠ 1 10)⊟ 1	The specification is objected to by the Examine of the drawing(s) filed on is/are: a) ☐ access that any objection to the of the contract of the contra	epted or b) objected to by the Edrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority u	nder 35 U.S.C. § 119					
12)⊠ <i>A</i> a)∑	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau ee the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been receive (PCT Rule 17.2(a)).	on No d in this National Stage			
Attachment	` <i>'</i>					
2) 🔲 Notice 3) 🔯 Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date of record.	4) Interview Summary (Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:				

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DETAILED ACTION

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Election/Restrictions

1. Applicant's election of Group I and Species 1 in the reply filed on 11/23/05 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

Specification

- 2. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.
- 3. Applicant is reminded of the proper content of an abstract of the disclosure.

A patent abstract is a concise statement of the technical disclosure of the patent and should include that which is new in the art to which the invention pertains. If the patent is of a basic nature, the entire technical disclosure may be new in the art, and the abstract should be directed to the entire disclosure. If the patent is in the nature of an improvement in an old apparatus, process, product, or composition, the abstract should include the technical disclosure of the improvement. In certain patents, particularly those for compounds and compositions, wherein the process for making and/or the use thereof are not obvious, the abstract should set forth a process for making and/or use thereof. If the new technical disclosure involves modifications or alternatives, the abstract should mention by way of example the preferred modification or alternative.

The abstract should not refer to purported merits or speculative applications of the invention and should not compare the invention with the prior art.

Where applicable, the abstract should include the following:

- (1) if a machine or apparatus, its organization and operation;
- (2) if an article, its method of making;
- (3) if a chemical compound, its identity and use;
- (4) if a mixture, its ingredients;
- (5) if a process, the steps.

Extensive mechanical and design details of apparatus should not be given.

4. Applicant is reminded of the proper language and format for an abstract of the disclosure.

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The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 6. Claims 1-2, 4-8, 11-13, 15, and 17 are rejected under 35 U.S.C. 102(b) as being anticipated by Leedy (US 5,103,557).

Leedy discloses a first detection step (col. 5, lines 1-68 and col. 6, lines 1-44); Figs. 4a-4b show first holding step and a first correction step; col. 6, lines 45-68 and entire col. 7 disclose E-beam means (maskless), forming vias and additional insulating layers.

Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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8. Claims 19-20, 22-26, and 29-36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Leedy (US 5,103,557) in view of Kulkarni et al (US 5,991,699).

Leedy teaches the invention as described with respect to claims 1-2, 4-8, 11-13, 15, and 17 above, except for imaging means and a second correction step of correcting the design data so as to move the wiring line away from the terminal of the other electronic component.

Kulkarni discloses in a number of figures, for example Figs. 3 and 10b), indentifying defects and issuing corrective actions and imaging means (col. 6, lines 8-34).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Leedy by identifying defects such as a terminal is displaced and intersects with a wiring line and correcting the design data so as to move the wiring line away from the terminal of the other electronic component and providing imaging means, as taught by Kulkarni, for the purpose of reducing total number of defects to the electronic components and providing defects in a digitized format.

9. Claims 14, 16, and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Leedy (US 5,103,557) in view of Kulkarni et al (US 5,991,699).

Leedy fails to disclose a second correction step of correcting the design data so as to move the wiring line away from the terminal of the other electronic component.

Kulkarni discloses in numerous figures, for example Figs. 3 and 10b), indentifying defects and issuing corrective actions.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Leedy by identifying defects such as a terminal is displaced and intersects with a wiring line and correcting the design data so as to move the wiring line away from the

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terminal of the other electronic component, as taught by Kulkarni, for the purpose of reducing total number of defects to the electronic components.

Conclusion

- 10. Please provide reference numerals (either in parentheses next to the claimed limitation or in a table format with one column listing the claimed limitation and another column listing corresponding reference numerals in the remark section of the response to the Office Action) to all the claimed limitations as well as support in the disclosure for better clarity (optional). Applicants are duly reminded that a full and proper response to this Office Action that includes any amendment to the claims and specification of the application as originally filed requires that the applicant point out the support for any amendment made to the disclosure, including the claims. See 37 CFR 1.111 and MPEP 2163.06.
- 11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rick K. Chang whose telephone number is (571) 272-4564. The examiner can normally be reached on 5:30 AM to 1:30 PM, Monday through Thursday.

The fax phone numbers for the organization where this application or proceeding is assigned are (571) 273-8300 for regular communications and (571) 273-8300 for After Final communications.

RICHARD CHANG PRIMARY EXAMINER Application/Control Number: 10/612,222

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RC

January 24, 2006